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Make network communication more reliable

SW4485I HUB
Quick Installation Guide

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【Package Checklist】

Please check the integrity of package and accessories while first using the product.

1. Hub x1 (with terminal block)
2. DIN-Rail mounting attachment
3. Warranty card
4. Certification

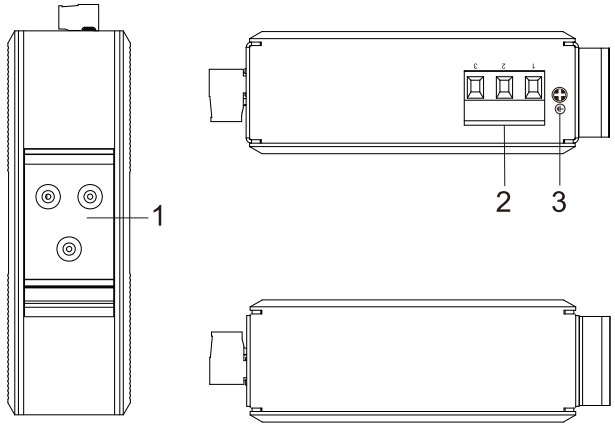
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

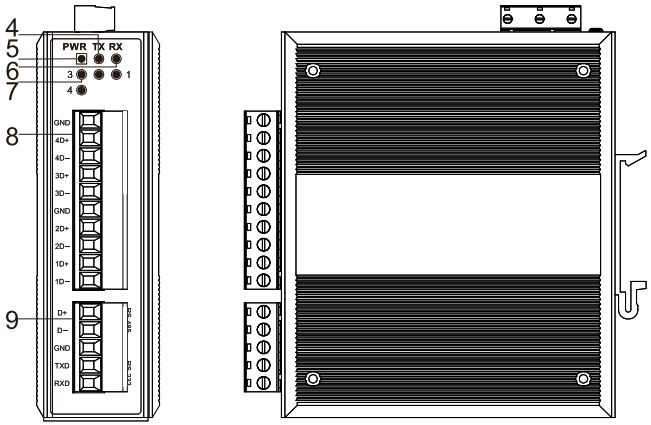
This product is a hub. The model is: SW4485I (1 RS-232/485 + 4 RS-485).

【Panel Design】

➢ **Rear view, Bottom view and Top view**



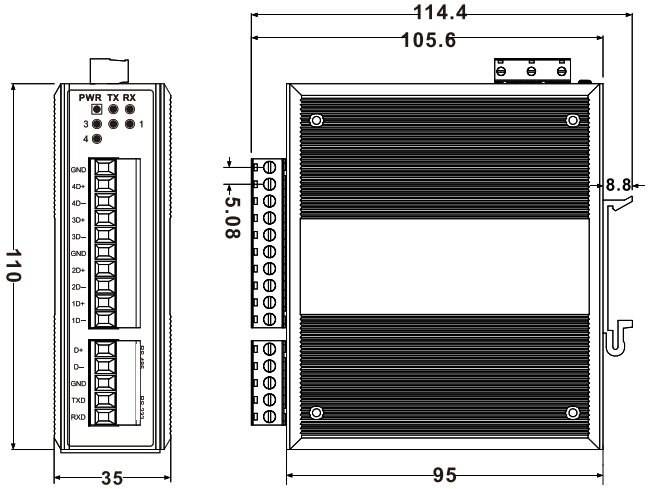
➢ **Front View**



1. DIN-Rail mounting kit
2. Terminal block for power input
3. Grounding screw
4. Data sending status indicator of upper device (TX)
5. Power indicator
6. Data receiving status indicator of upper device (RX)
7. RS-485 interface status indicator light of the lower device (1-4)
8. RS-485 interface of the lower device
9. RS-232/485 interface of the upper device

【Mounting Dimension】

Unit: mm

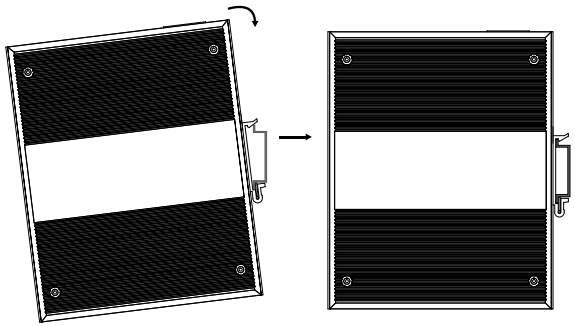


Notice before mounting:

- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【DIN-Rail Mounting】

The product adopts 35mm standard DIN-Rail mounting which is suitable for most industrial scenes, mounting steps as follows:



Step 1 Check if the DIN-Rail mounting kit is installed firmly.

Step 2 Insert the bottom of DIN-Rail mounting kit (one side with spring support) into DIN-Rail, and then insert the top into DIN-Rail.

Tips:

Insert a little to the bottom, lift upward and then insert to the top.

Step 3 Check and confirm the product is firmly installed on DIN-Rail, then mounting ends.

【Disassembling DIN-Rail】

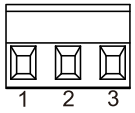
Step 1 Device power off.

Step 2 After lift the device upward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, disassembling ends.

Notice before power on:

- Power ON operation: First insert the power supply terminal block into the device power supply interface, and then plug the power supply plug contact and power on.
- Power OFF operation: First, remove the power plug, and then remove the wiring section of terminal block. Please pay attention to the above operation sequence.

【Power Supply Connection】

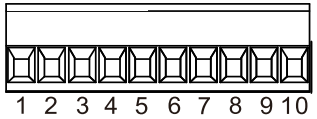


The product provides 3-pin 7.62mm pitch terminal blocks, in which 1 and 3 are power input and 2 is grounding. The power supply has the function of non-polarity and anti-reverse connection, and the device can still work normally after the reverse connection.

Voltage range: 12VDC~48VDC.

【Serial Port Connection】

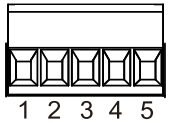
➢ **Lower device RS-485**



The device provides 4 RS-485 lower device interfaces, the interface type is 10-pin 5.08mm pitch terminal block, support 15kV electrostatic protection, 2kVAC isolation protection. The pin definitions as shown in the follow table:

PIN	Definition	Note
1.	GND	Signal ground
2.	4D+	RS-485 positive signal input (out) terminal
3.	4D-	RS-485 negative signal input (out) terminal
4.	3D+	RS-485 positive signal input (out) terminal
5.	3D-	RS-485 negative signal input (out) terminal
6.	GND	Signal ground
7.	2D+	RS-485 positive signal input (out) terminal
8.	2D-	RS-485 negative signal input (out) terminal
9.	1D+	RS-485 positive signal input (out) terminal
10.	1D-	RS-485 negative signal input (out) terminal

➢ **RS-232/485 serial port of the upper device**



The device provides 1 RS-232/485 upper device port, the interface form is 5-pin 5.08mm pitch terminal block, supports 15kV electrostatic protection, 2kVAC isolation protection. The pin definitions as shown in the follow table:

PIN	Definition	Note
1.	D+	RS-485 positive signal input (out)
2.	D-	RS-485 negative signal input
3.	GND	RS-232 signal ground wire
4.	TxD	RS-232 data sending terminal
5.	RxD	RS-232 data receiving terminal

【Checking LED Indicator】

The device provides LED indicators to monitor the device working status with a comprehensive simplified troubleshooting; the function of each LED is described in the table as below:

LED	Indicate	Description
PWR	ON	PWR is connected and running normally
	OFF	PWR is disconnected and running abnormally
1-4	ON	The device is normally powered on, and the corresponding interface from D1 ~ D4 is in the state of receiving/sending data
	Blinking	D1~D4 corresponding interfaces are sending/receiving data
	OFF	Fault warning: the device is not powered on or the device is normally powered on, D1~D4 corresponding interface signal line is inversely connected
TX	Blinking	transmitting data
	OFF	No data transmission
RX	Blinking	receiving data
	OFF	No data receiving

【Specification】

Panel	
RS-232/485	1 RS-232/485 serial port, upper device interface, adopts 5-pin 5.08mm pitch terminal blocks
RS-485	4 RS-485 serial port, lower device interface, adopts 10-pin 5.08mm pitch terminal blocks
Indicator	Power indicator, serial port data transmitting/receiving indicator, lower device serial port indicator
Power Supply	
Input power supply	Power input voltage: 12~48VDC Support nonpolarity
Access terminal block	3-pin 7.62mm pitch terminal blocks
Power Consumption	
No-load	0.696W@24VDC
Full-load	0.696W@24VDC
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%～95% (no condensation)
Protection grade	IP40(metal shell)